

Appl. No. 09/931,651
Amdt. Dated January 5, 2004
Reply to Office Action of October 2, 2003

Attorney Docket No. 81868.0032
Customer No.: 26021

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A dynamic pressure bearing device, comprising:
a cylindrical member for rotatably supporting a shaft member,
wherein the cylindrical member is composed of a copper metal; and
a lubricating fluid including benzotriazole ~~and cupric benzotriazole~~, the lubricating fluid filling a bearing gap space formed between the cylindrical member and the shaft member and the lubricating fluid is in contact with at least the cylindrical member, wherein the an anti-rust film of cupric benzotriazole is formed on a surface of the cylindrical member by reacting the copper metal of the cylindrical member with the benzotriazole in the lubricating fluid, and, as the anti-rust film is eliminated through operation of the bearing member, a new anti-rust film of cupric benzotriazole is formed through another reaction between the copper metal of the cylindrical member and the benzotriazole in the lubricating fluid.
2. (Original) A bearing member according to claim 1, wherein the film composed of cupric benzotriazole is formed on all surfaces of the cylindrical member.
3. (Original) A bearing member according to claim 1, wherein the film composed of cupric benzotriazole is an anti-rust film that substantially prevents water and oxygen from entering the copper metal that forms the cylindrical member.

4. (Original) A bearing member according to claim 1, wherein the anti-rust film has a thickness of about 10^{-10} mm.

5. (Previously Canceled)

6. (Currently Amended) A dynamic pressure bearing device comprising:

a bearing member including a shaft member;
a cylindrical member that rotatably supports the shaft member, wherein the cylindrical member is made from a copper metal; and
a lubricating fluid including benzotriazole ~~and cupric benzotriazole~~, filled in a bearing gap space formed between the cylindrical member and the shaft member and at least in contact with the cylindrical member, the cylindrical member including a dynamic pressure bearing sleeve that relatively rotatably supports the shaft member through dynamic pressure of the lubricating fluid; wherein an anti-rust film of cupric benzotriazole is formed by reacting the copper metal of the cylindrical member with the benzotriazole in the lubricating fluid, and, as the anti-rust film is eliminated through operation of the bearing member, a new anti-rust film of cupric benzotriazole is formed through another reaction between the copper metal of the cylindrical member and the benzotriazole in the lubricating fluid.

7. (Previously Canceled)

8. (Previously Amended) A dynamic pressure bearing device according to claim 6, wherein the lubricating fluid includes benzotriazole at a ratio of between 0.01 wt.% and 10 wt. %.

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9. (Previously Amended) A dynamic pressure bearing device according to claim 6, further comprising a capillary sealing section provided at an opening area of the bearing gap space for holding the lubricating fluid within the bearing gap space by surface tension.

10. (Original) A dynamic pressure bearing device according to claim 9, wherein a new film composed of cupric benzotriazole is automatically formed at the capillary sealing section when the film composed of cupric benzotriazole is eliminated at the capillary sealing section.

11. (Original) A dynamic pressure bearing device according to claim 9, wherein the lubricating fluid including cupric benzotriazole forms a new film composed of cupric benzotriazole at the capillary sealing section when the film composed of cupric benzotriazole is eliminated at the capillary sealing section.

12-22. (Previously Canceled)